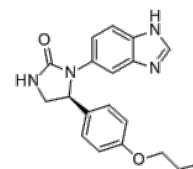


Product Name : Varoglutamstat
Cat. No. : PC-21626
CAS No. : 1276021-65-8
Molecular Formula : C₁₉H₂₀N₄O₂
Molecular Weight : 336.40
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 1276021-65-8

Biological Activity

Varoglutamstat (PQ912) is a potent **glutaminyl cyclase** (QC) inhibitor with K_i values of 20-65 nM for human, rat, and mouse QC activity.

Varoglutamstat (PQ912) shows fast association and dissociation kinetics with a K_D value of 17 nM in SPR assays.

Varoglutamstat (PQ912) potently inhibits N3pE-Aβ_{40/42} formation in the APP-NLE/hQC model with EC₅₀ of 0.14-0.25 μM.

Chronic oral treatment of hAPPSLxhQC double-transgenic mice with Varoglutamstat (PQ912) 200 mg/kg/day via chow shows a significant reduction of pE-Aβ levels and concomitant improvement of spatial learning in a Morris water maze test paradigm.

References

Zhang Y, et al. *Eur J Pharmacol.* 2022 Sep 15;931:175178.

Hoffmann T, et al. *J Pharmacol Exp Ther.* 2017 Jul;362(1):119-130.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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